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FORWARD

The purpose of this report is to present in a statistical form, details of the day care surgery program in British Columbia. The data presented has been derived from the statistical information received from the national service bureaus performing medical record abstracting for the hospitals in British Columbia.

Although the formats and content of the tables are similar to those of past reports, the number and order of the tables have changed. Therefore, care should be taken when comparing this report to those of previous years.

This report is expanded from prior years to include charts, graphs and tables which illustrate day care surgery utilization over time and highlight emerging trends. Throughout the report we have maintained an objective overview of the data and have not made policy or procedural recommendations.

I wish to acknowledge the efforts of William Selwood, Senior Research Officer, and Allan Chapman, Research Officer, in the preparation of this report.

R. N. Brand
Director, Information Resources
Institutional Management Resources

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INTRODUCTION

INTRODUCTION

The purpose of this report is to analyse the 1987/88 experience of the day care surgery program in British Columbia, show the types of procedures being performed, document the growth of day care surgery over the past few years and highlight emerging trends. For comparative purposes, this report should be reviewed with the report on the 1986/87 experience. Reports prior to 1979/80 employed the ICD 8th Revision. Thus, when comparisons are made with the 8th Revision, some caution should be used as a result of the change in the code structure and classification.

At the time the decision was made for provision of day care surgical services under the British Columbia Hospital Insurance Act, there was considerable discussion as to the type of case that would be suitable for coverage and the method of defining acceptable cases and procedures. Serious consideration was originally given to the development of a list of procedures and diagnoses which would be eligible. However, it was felt that such a list would be subject to constant amendment, revision and additions, and hospital clerical personnel would have continuing difficulties interpreting admitting diagnoses and types of procedures against the background of a constantly changing eligible list. It was decided therefore that a broad general definition of what was intended for coverage was a superior method of dealing with the problem. The definition is based primarily on the assumption that day care surgical services are a compact form of inpatient care, requiring the full services of an operating room suite and as such, deserve the same quality control considerations provided to inpatients. The attending physicians in the hospitals are expected to provide a complete medical record for a day care admission, and these records are subject to the usual review taken by the hospital's Medical Utilization Committee to establish quality control, and assist in assessing proper utilization of the program.

Day care surgical services can be divided into four main groups as follows:

1. the primary group of cases are those elective or non-elective diagnostic and/or treatment procedures requiring the use of hospital facilities and a general anaesthetic;

2. a second group of cases are those procedures which would normally be carried out under general anaesthesia, but where the attending physician has elected to use local or regional anaesthesia. It is recognized that many physicians are highly proficient in operating under these conditions, and such procedures as repair of hernia, breast biopsy, closed reduction of fractures, etc., while commonly performed under a general anaesthetic, are also frequently performed under local or regional anaesthesia;

3. a third group of cases are endoscopic procedures carried out under either local or general anaesthesia, or sedation. It is felt that hospital facilities are required for cystoscopy, bronchoscopy, esophagoscopy, gastroscopy, etc. Sigmoidoscopy does not normally require complete hospital facilities and is usually performed as a simple office or hospital outpatient procedure, but there may be exceptions;

4. a fourth group of procedures are those related to certain plastic, opthalmological and other surgical procedures which may be carried out under general or local anaesthesia. While it is felt that such simple procedures as excision of cysts, removal of warts, toenails, etc., should not be removed from their present "minor surgery" classification, it is recognized that certain plastic surgical, ophthalmological, and other procedures on the face do require a degree of care and attention which may call for full operating room, recovery room, nursing care and other hospital services.

SECTION 1

OVERVIEW OF DAY CARE SURGERY IN BRITISH COLUMBIA

SECTION 1. OVERVIEW OF DAY CARE SURGERY IN BRITISH COLUMBIA

Day care surgical services have been provided as a benefit under the British Columbia Hospital Insurance Act since February, 1968. During that initial year of operation, 13,450 procedures were carried out under the program. As indicated in Table 1 and Figure 1, the number of reported procedures carried out annually has increased consistently over the past ten years. The increases in both the volume and rate of day care surgery in British Columbia are statistically significant. Regression analyses yield coefficients for annual growth of approximately 10,200 cases per year, and 3.0 cases per 1,000 population per year, for the 1978 to 1987/88 period.

A further analysis of the incidence of day care procedures by age group for the years 1979/80, 1981/82, 1983/84, 1985/86 and 1987/88 indicates that the bulk of this increase has occurred in the 45-69 and the over 70 age groups. This is illustrated in Figure 2. The incidence per thousand population for the over 70 age group has grown from 26.49 in 1979/80 to 96.67 in 1987/88. The incidence for the 45-69 age group has grown from 36.49 to 74.29 over the same period. This increase is generally distributed consistently among the operation groupings, discussed in Section 2, that have exhibited growth in day care surgical volume.

Table 1. Day Care Surgery Volume, 1978 - 1987/88

YEAR	POPULATION	CASES	CASES PER 1,000 POP.
1978	2,542,300	82,369	32.4
1979/80	2,589,400	90,120	34.8
1980/81	2,666,000	97,085	36.4
1981/82	2,744,500	105,944	38.6
1982/83	2,787,700	116,958	42.0
1983/84	2,813,800	122,244	43.4
1984/85	2,847,700	129,636	45.5
1985/86	2,870,100	145,409	50.7
1986/87	2,889,200	161,505	55.9
1987/88	2,925,700	171,852	58.7

Figure 1. Day Care Volume per 1,000 Population

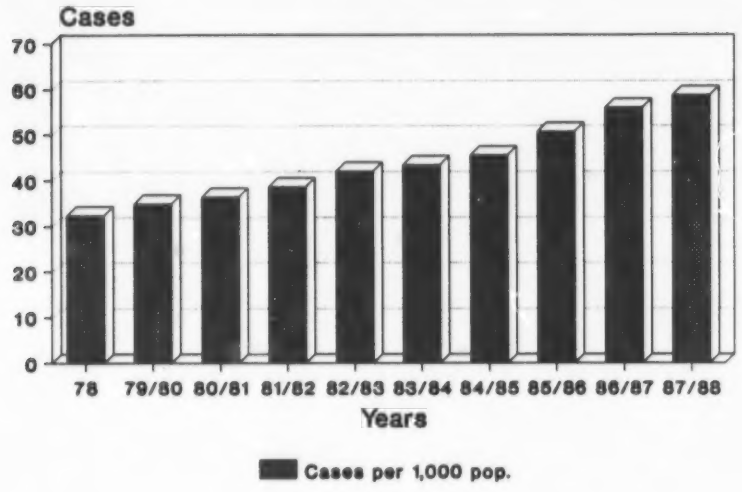
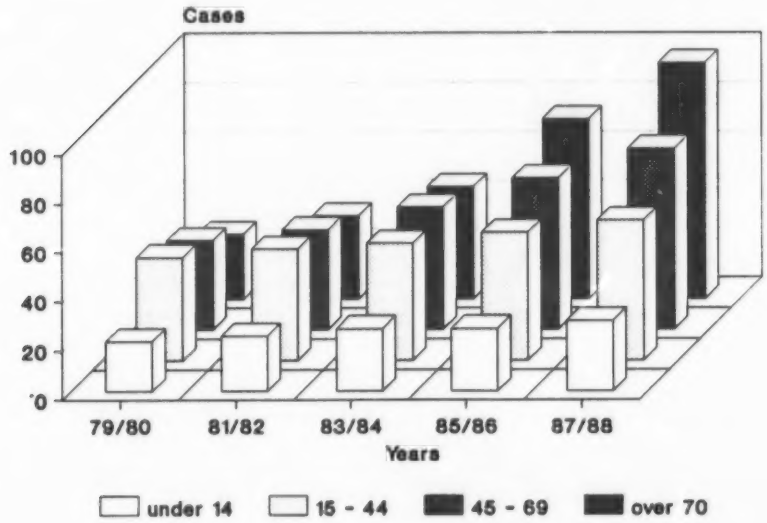
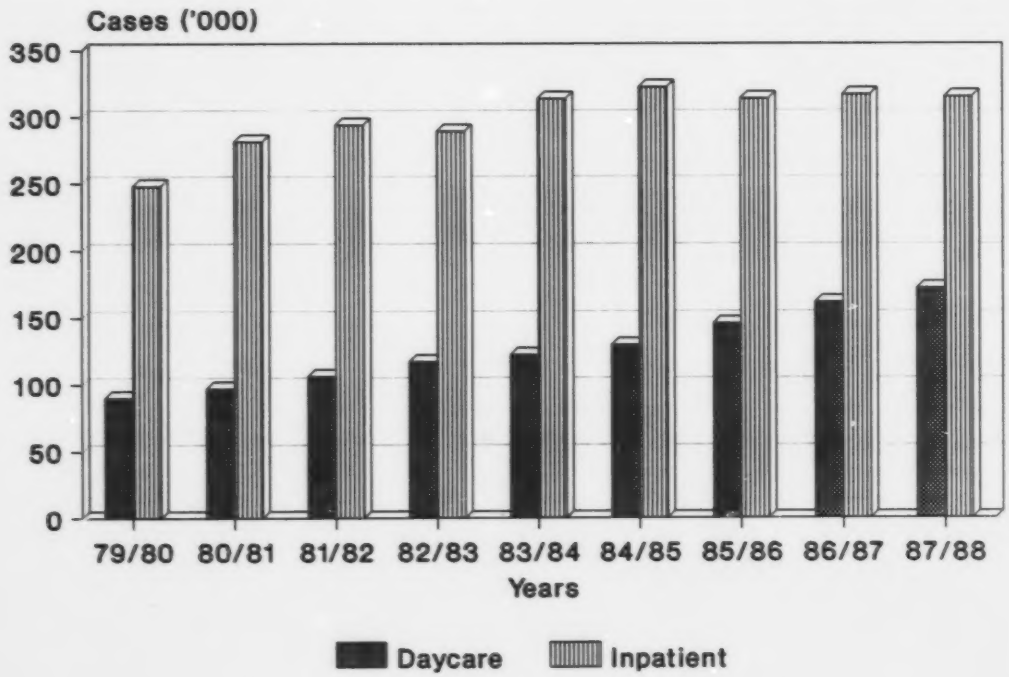


Figure 2. Day Care Surgery by Age Group
per 1,000 Population



The total day care surgical case load rose from 161,505 in 1986/87 to 171,852 in 1987/88, an increase of 6.4 percent. During the same period, the total acute care hospital inpatient surgical load (primary procedures only) was 315,400 cases, down from 317,130, a decrease of 0.5 percent. In total then, the 1987/88 day care load represented 35.3 percent of the total surgical load. The relationship between the total inpatient and daycare surgical load over time is illustrated in Figure 3.

Figure 3. Volume of Surgical Procedures, 1979/80 - 1987/88



SECTION 2

DAY CARE SURGICAL VOLUMES FOR SPECIFIC HOSPITALS

SECTION 2. DAY CARE SURGICAL VOLUMES FOR SPECIFIC HOSPITALS

Surgical procedures are classified into 18 operation groupings based on the Canadian Classification of Diagnostic, Therapeutic, and Surgical Procedures used in conjunction with the ICD-9 (See Appendix A for definitions of the groupings). While these groupings indicate the general areas of surgery, they do not indicate the specific procedures performed. Figures 4A and 4B compare the distribution among these operation groupings for fiscal years 1979/80, 1981/82, 1983/84, 1985/86 and 1987/88.

Figure 4A. Day Care Surgery by Operation Groups

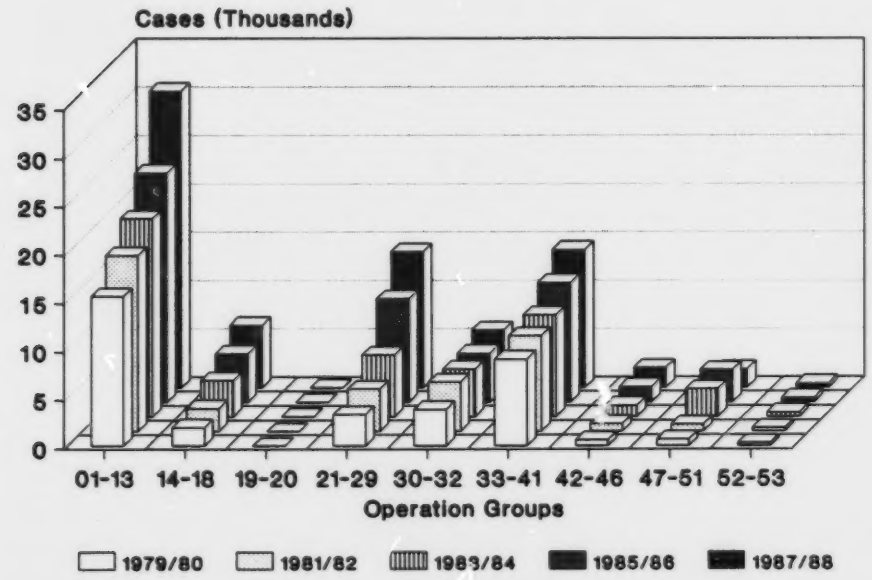
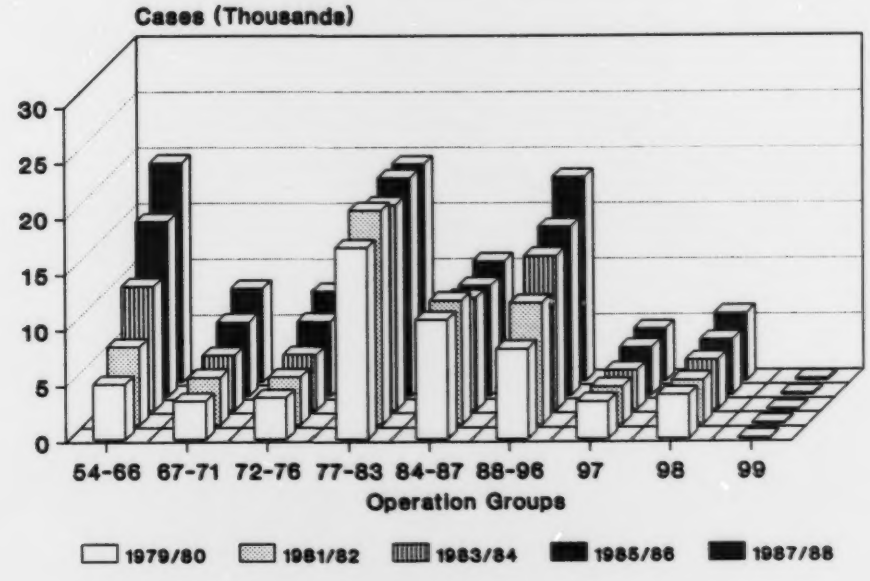


Figure 4B. Day Care Surgery by Operation Groups



Although, as expected, most groupings showed an increase, day care volumes for a number of groupings increased consistently and substantially over the seven year period, including:

Certain Diagnostic and Therapeutic Procedures	Code: 01-13
Operations on the Nervous System	14-18
Operations on the Eyes	21-29
Operations on the Nose, Mouth, and Pharynx	33-41
Operations on the Digestive System	54-66
Operations on the Urinary Tract	67-71
Operations on the Male Genital Organs	72-76
Operations on the Musculoskeletal System	88-96

Consistent with the 1986/87 Report On Day Care Surgery, the decline in volume for operation group 47-51, operations on the cardiovascular system, continues to be a result of the reduction in the number of hemodialysis cases (code 51.95) being reported incorrectly as day care surgery. An analysis of the 1987/88 hospital specific workload by operation group is shown in Table 2.

TABLE 2. DAY CARE SURGICAL CASES BY HOSPITAL AND OPERATION GROUP, 1987/88

HOSP CODE	TOTAL	OPERATION GROUPS																
		01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
101	18,072	1,140	425		2,836	20	989	277	130	8	1,732	2,356	696	1,492	4,948	833	61	119	10
102	7,010	1,450	146		1,133	41	149	39	132	18	1,979	469	138	505	2	452	184	122	51
103	2,826	358	26		603	63	213	32	105	11	333	224	154	251	2	132	235	84	
105	6,471	1,631	11		585	897	1,587	42	131	17	584	57	418	10		312	2	186	1
106	2,250	252	15	1	286	79	161	25	1	13	254	163	69	589	2	167	83	83	7
107	396	87	6				7	66	17	45	3	5	13	6		2	134	4	1
109	6,050	1,245	251		41	53	61	356	627	10	940	291	266	636	284	459	150	366	14
110	4,346	378	108		1,523	369	690	75	28	6	122	6	12	91		434	54	449	1
111	369	35	8	1	6	11	68		2	2	19	24	4	104	2	47	14	22	
112	7,676	991	142		442	204	320	76	42	25	1,098	541	232	1,146	555	1,457	239	152	14
113	406	100	19				4		2		65	7	40	88	26	46	2	7	
115	1,750	539	31		98	48	23	5	7	5	250	39	48	314	3	197	76	65	2
116	6,129	1,013	169	1	273	359	398	74	23	15	433	51	429	1,034	252	757	232	616	
121	3,696	452	64		219	121	87	54	11	13	147	165	357	569	278	625	200	334	
123	2,707	425	10		176	1	40	15	98	3	763	242	124	124		383	244	52	7
125	5,555	965	601		57	11	232	13	40	5	1,366	342	88	753	738	295	26	19	4
128	94	1	8			1	16				4			42	1	9	2	9	1
130	5,263	1,164	59		373	108	64	34	60	1	843	173	169	533	478	597	223	382	2
131	3,070	538	1,243	1	197	3	55		11	6	195	36	131	314	74	159	73	34	
134	918	191	11		49	9	47	4	3	2	143	58	82	161		40	69	47	2
136	3,381	381	146	1	88	273	397	8	3		81	266	308	373	112	411	71	459	3
201	12,146	2,536	251	1	1,774	84	1,311	260	121	27	725	521	526	1,165	983	1,233	184	444	
202	8,805	2,511	104		620	731	1,120	87	53	28	645	195	369	855	70	891	241	285	
203	2,173	466	110		28	112	217	3	4	9	244	45	120	384	1	332	55	42	1
206	30	2	4		1		6					2	3	3		4	5		
217	571	131	10		42	18	60	3		1	46	15	39	115	15	28	25	23	
301	2,715	699	88		107	182	199	33	23	11	333	107	122	303		401	59	47	1
302	5,849	434	217	3	544	111	112	120	10	13	1,597	485	227	927	16	708	178	132	15
303	2,697	662	63		60	99	248	48	9	12	420	167	201	270	117	206	78	33	4
305	71	14	8				1				1	1	18	12		7	8	1	
306	53		1		1		3				1		3	25		9	1	9	
307	55		6				10		1				17	10		4	4	3	

TABLE 2. DAY CARE SURGICAL CASES BY HOSPITAL AND OPERATION GROUP, 1987/88

HOSP CODE	TOTAL	OPERATION GROUPS 01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
308	160	10	15		1		50				1	1	20	28		24	4	6	
309	89	2	8				11				3		27	21		9	6	2	
401	7,154	1,455	643	3	182	284	935	49	21	11	557	293	334	819	327	881	171	189	
402	123	1	13				5			1	5		8	42	16	22	5	5	
403	171	7	20	1			2				10	2	31	74		21	2	1	
404	640	200	43			3	30			2	79	3	72	91	40	32	29	8	8
406	1,182	375	15		23	12	103	2		6	115		82	200	55	103	35	56	
408	50	1	3	1			14				1			8		5	13	4	
409	82	3					4			1			4	39	21		7	2	1
417	14	4			1		1						3	2		2		1	
501	5,723	779	195	1	706	269	532	55	29	20	576	238	233	591	332	928	117	114	8
502	1,902	308	18		234	66	329	4	5	6	177	72	87	156		329	65	44	2
504	1,659	124	56			76	631	1			181	8	86	188	169	118	1	16	4
505	492	45	10		3	4	176				7	8	11	13		189	1	22	3
506	917	195	45		59	11	154		9		20	47	97	22		96	80	82	
508	2,241	161	280	1	10	121	279	39		2	274		83	250	114	515	61	49	2
510	45		6										33			5		1	
511	7												7						
601	2,822	420	106	1	306	150	261	35	70	7	296	75	164	332		413	100	85	1
602	1,165	360	30		7	72	176	9	8	4	76	11	64	179	42	71	13	36	7
603	4,530	1,463	114	2	44	204	360	20	47	15	356	228	307	575		583	107	99	6
604	1,162	332	15		49	40	38	2	2	5	87	50	147	206	63	75	26	23	2
606	12	2											1	9					
651	867	261	11		2	1	153		1	2	150		67	92	31	36	16	39	5
654	279	114					13	1		3	2	1	20	71	4	16	22	12	
701	414	50	27			39	98			3	21		11	23	49	69	14	10	
702	89	1	7				3		1		2		22	36		10	4	3	
703	4,159	1,042	145		56	188	83	77	48	26	384	137	181	739	187	504	246	112	4
704	841	131	24		5	19	80		1	3	163	36	22	141	81	98	24	13	
705	1,120	502	39		1	16	73		1	3	75	6	78	113	76	69	34	34	
707	77	25	7				2				2		13	16		5	5	1	1

TABLE 2. DAY CARE SURGICAL CASES BY HOSPITAL AND OPERATION GROUP, 1987/88

HOSP CODE	TOTAL	OPERATION GROUPS																	
		01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
708	164	47	16				44			1	1			33		11	8	3	
713	10						1						6	1		1		1	
714	23	2				5	2						1	7		2	3	1	
715	37						25						10	2					
716	4													4					
717	22	1											11	10					
752	166	49	8				25				2	5	1	46	2	20	6	2	
754	114	12	1	1		1	5			3	2		13	42		9	4	19	2
755	85		2				3			1	2	1	13	39		13	11		
756	1,709	462	53		21	52	185	22	2	9	343	15	28	132	29	239	71	46	
801	1,146	215	43		27	44	50	20	11	3	127	40	5	214	17	230	31	65	4
802	506	2	2													502			
803	119	7	14								3	1	2	37	13	26	4	9	3
804	216	13	3				16			1	12	1	5	92	41	16	10	6	
851	1,289	192	24	1	152	90	230	2	1	13	24	2	83	178	34	82	59	121	1
854	5												4	1					
901	60	11	4		5	11	6				1	1		5		10	1	5	
902	722	77	53	2	14	74	52		1		15	11	50	109	57	120	52	33	2
903	607	192	16			73	71			5	50	2	59	71	15	36	3	10	4
906	13	1				2	3	1					4	2					
907	8												7				1		
909	4												2					2	
912	573	147	13			28	26				66	2	20	149	5	72	11	34	
917	462	119	2		6	17	62	1		1	18	28	46	63		70	8	21	
TOTAL	171,852	30,713	6,510	23	14,076	5,980	14,297	2,089	1,952	463	19,652	8,378	8,108	19,517	10,779	18,324	4,703	6,077	211

Table 3 shows the total number of day care surgical procedures performed at each acute care hospital, together with the number of operations performed on inpatients (based on primary operations only), and relates the day care surgery to the total surgical volume of the hospital. As previously mentioned, 35.3 percent of all surgery was performed on a day care basis in 1987/88. However, when we look at only those hospitals where the total surgical load was greater than 10,000 cases, day care surgery accounted for 37.6 percent of the total load. Looking at only those hospitals where the total surgical load was less than 10,000 cases, day care surgery represented 31.1 percent of the total. In addition to hospital surgical volume, another factor which tended to raise the level of day care surgery performed at individual hospitals included the provision of specialized services (i.e., eye care at Vancouver General Hospital and St. Mary's Hospital, New Westminster).

For comparison, Table 3 also shows the day care surgery percentages for each hospital for 1985/86 and 1986/87. Almost 72 percent of hospitals experienced increases in the percentage of their surgery performed as day care between 1985/86 and 1987/88. There are, again, differences based on total hospital surgical volume. Eighty-two percent of those hospitals with a total surgical load of 10,000 cases or greater (in 1987/88) experienced increases in the percentage of surgery performed as day care, as compared with only 69 percent for those hospitals with a total surgical volume of less than 10,000 cases.

TABLE 3. VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY) PERFORMED IN ACUTE CARE HOSPITALS, 1987/88, SHOWING COMPARISON WITH 1985/86 AND 1986/87 DAY CARE SURGERY PERCENTAGES

HOSPITAL		1987/88 SURGERY			% DAY CARE SURGERY		
CODE	NAME	DAY CARE	INPATIENT	TOTAL	85/86	86/87	87/88
101	Vancouver General	18,072	24,853	42,925	40.6	42.3	42.1
102	St. Paul's	7,010	15,899	22,909	27.4	28.2	30.6
103	St. Vincent's	2,826	2,645	5,471	42.2	48.9	51.7
104	The Salvation Army Grace		9,106	9,106	0.0	0.0	0.0
105	Children's	6,471	5,052	11,523	49.0	52.7	56.2
106	Mount Saint Joseph	2,250	3,376	5,626	35.5	38.0	40.0
107	A. Maxwell Evans Clinic	396	2,982	3,378	7.5	12.3	11.7
109	Royal Columbian	6,050	14,873	20,923	28.9	25.9	28.9
110	Saint Mary's	4,346	6,640	10,986	35.4	39.1	39.6
111	Powell River General	369	1,725	2,094	19.7	17.9	17.6
112	Lions Gate	7,676	11,477	19,153	37.7	39.8	40.1
113	St. Mary's	406	1,527	1,933	17.0	18.6	21.0
115	Langley Memorial	1,750	5,615	7,365	20.6	22.4	23.8
116	Surrey Memorial	6,129	13,023	19,152	31.4	30.3	32.0
121	Richmond General	3,696	6,111	9,807	33.9	34.5	37.7
123	UBC Health Sciences Centre	2,707	7,532	10,239	19.2	20.4	26.4
125	Shaughnessy	5,555	11,457	17,012	32.5	33.2	32.7
128	Squamish General	94	497	591	16.5	15.7	15.9
130	Burnaby Hospital	5,263	9,919	15,182	23.2	30.3	34.7
131	Peace Arch Hospital	3,070	3,816	6,886	44.0	43.2	44.6
134	Delta Hospital	918	2,018	2,936	32.0	34.2	31.3
136	Eagle Ridge	3,381	1,944	5,325	62.1	63.5	63.5
201	Royal Jubilee	12,146	13,552	25,698	22.1	44.4	47.3
202	Victoria General	8,805	15,262	24,067	33.3	33.0	36.6
203	Cowichan District	2,173	3,579	5,752	35.7	37.0	37.8
206	Lady Minto Gulf Islands	30	468	498	14.9	9.1	6.0
217	Saanich Peninsula	571	2,889	3,460	21.5	19.2	16.5
301	Vernon Jubilee	2,715	4,249	6,964	34.8	39.5	39.0
302	Kelowna General	5,849	11,328	17,177	33.1	33.6	34.1
303	Penticton Regional	2,697	5,887	8,584	29.8	32.0	31.4
305	Princeton General	71	351	422	16.6	20.2	16.8
306	Enderby and District Memorial	53	287	340	25.8	23.6	15.6
307	Armstrong and Spallumcheen	55	155	210	33.1	25.5	26.2
308	Summerland General	160	469	629	19.6	20.6	25.4
309	South Okanagan General	89	759	848	18.4	14.5	10.5
401	Royal Inland	7,154	10,027	17,181	43.0	39.8	41.6
402	Queen Victoria	123	627	750	14.2	12.2	16.4
403	Nicola Valley General	171	768	939	20.2	18.4	18.2
404	Shuswap Lake General	640	1,715	2,355	24.1	24.7	27.2
405	St. Bartholomew's		53	53	0.0	0.0	0.0
406	Cariboo Memorial	1,182	2,296	3,478	32.0	32.4	34.0
408	Ashcroft and District General	50	521	571	11.1	4.3	8.8
409	Golden and District	82	517	599	14.3	9.6	13.7
417	Lillooet District	14	379	393	3.6	3.5	3.6

TABLE 3. VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY) PERFORMED IN ACUTE CARE HOSPITALS, 1987/88, SHOWING COMPARISON WITH 1985/86 AND 1986/87 DAY CARE SURGERY PERCENTAGES

HOSPITAL		1987/88 SURGERY			% DAY CARE SURGERY		
CODE	NAME	DAY CARE	INPATIENT	TOTAL	85/86	86/87	87/88
419	Dr. Helmcken Memorial		283	283	0.0	0.0	0.0
501	Nanaimo Regional General	5,723	7,423	13,146	40.9	40.3	43.5
502	St. Joseph's General	1,902	3,960	5,862	24.2	30.0	32.4
504	Cumberland Health Care Facility*	1,659		1,659	100.0	100.0	100.0
505	Chemainus General	492		492	62.1	100.0	100.0
506	Ladysmith and District General	917	604	1,521	56.5	60.8	60.3
507	St. George's		197	197	0.3	0.0	0.0
508	Campbell River and District General	2,241	3,073	5,314	38.5	40.3	42.2
510	Port Hardy	45	123	168	29.4	18.2	26.8
511	Port McNeill and District	7	232	239	10.7	7.3	2.9
601	Chilliwack General	2,822	4,382	7,204	37.2	36.5	39.2
602	Mission Memorial	1,165	2,536	3,701	27.1	27.1	31.5
603	Matsqui-Sumas-Abbotsford General	4,530	7,111	11,641	37.9	38.4	38.9
604	Maple Ridge	1,162	3,314	4,476	22.5	25.3	26.0
606	Fraser Canyon	12	511	523	10.2	4.2	2.3
651	Kootenay Lake District	867	2,419	3,286	26.3	25.6	26.4
652	Slocan Community		61	61	0.0	0.0	0.0
653	Victorian		32	32	0.0	0.0	0.0
654	Creston Valley	279	1,223	1,502	9.1	16.1	18.6
655	Arrow Lakes		402	402	0.0	0.0	0.0
701	Fort St. John General	414	1,933	2,347	14.8	17.8	17.6
702	St. John	89	585	674	12.1	13.8	13.2
703	Prince George Regional	4,159	9,922	14,081	30.8	30.6	29.5
704	Dawson Creek and District	841	2,878	3,719	19.1	22.9	22.6
705	G. R. Baker Memorial	1,120	1,819	2,939	35.1	39.9	38.1
707	Burns Lake and District	77	392	469	15.7	17.1	16.4
708	100 Mile District Regional	164	502	666	14.8	17.3	24.6
713	McBride and District	10	167	177	8.8	9.2	5.6
714	Fort Nelson General	23	582	605	20.5	15.7	3.8
715	Mackenzie and District	37	192	229	18.4	21.9	16.2
716	Chetwynd General	4	289	293	0.0	0.9	1.4
717	Stuart Lake	22	221	243	10.0	11.3	9.1
752	Kimberley and District	166	546	712	17.9	19.1	23.3
753	Fernie District		1,124	1,124	6.6	1.3	0.0
754	Sparwood General	114	527	641	12.4	15.8	17.8
755	Windermere District	85	324	409	21.5	20.9	20.8
756	Cranbrook and District	1,709	2,592	4,301	34.4	38.1	39.7
801	Trail Regional	1,146	3,323	4,469	24.3	23.4	25.6
802	The Mater Misericordiae	506	4	510	69.1	88.9	99.2
803	Boundary	119	678	797	14.6	13.2	14.9
804	Castlegar and District	216	781	997	21.2	23.2	21.7
851	West Coast General	1,289	1,319	2,608	44.0	48.9	49.4
854	Tofino General	5	113	118	5.7	0.0	4.2
858	C. F. Station Hospital, Holberg				0.0	0.0	.

TABLE 3. VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY) PERFORMED IN ACUTE CARE HOSPITALS, 1987/88, SHOWING COMPARISON WITH 1985/86 AND 1986/87 DAY CARE SURGERY PERCENTAGES

HOSPITAL		1987/88 SURGERY			% DAY CARE SURGERY		
CODE	NAME	DAY CARE	INPATIENT	TOTAL	85/86	86/87	87/88
859	Port Alice		34	34	0.0	0.0	0.0
861	Tahsis		26	26	0.0	0.0	0.0
901	Wrinch Memorial	60	525	585	8.2	11.8	10.3
902	Prince Rupert Regional	722	2,378	3,100	29.7	22.0	23.3
903	Bulkley Valley District	607	1,467	2,074	32.0	29.5	29.3
904	R. W. Large Memorial		116	116	0.0	0.0	0.0
906	Bella Coola General	13	174	187	7.3	8.1	7.0
907	Queen Charlotte Islands General	8	129	137	10.1	3.0	5.8
909	Houston Health & Human Resources Centre	4		4	100.0	100.0	100.0
910	Stewart General		39	39	0.0	0.0	0.0
912	Mills Memorial	573	2,421	2,994	19.9	20.2	19.1
916	Cassiar		10	10	0.0	0.0	0.0
917	Kitimat General	462	1,088	1,550	23.0	28.8	29.8
918	C. F. Station Hospital, Masset		69	69	0.0	0.0	0.0
TOTAL		171,852	315,400	487,252	31.6	33.7	35.3

SECTION 3

DAY CARE SURGICAL VOLUMES FOR SPECIFIC PROCEDURES

SECTION 3. DAY CARE SURGICAL VOLUMES FOR SPECIFIC PROCEDURES

In order to analyse the work volume by specific procedure, it is necessary to use the full four-digit operation code. This, however, has the disadvantage of being an extremely lengthy breakdown. From an analysis of this data, it was possible to prepare a list of the most common procedures carried out in all hospitals in the Province during 1987/88 under the day care program. These are shown in Table 4. In order to minimize the number of codes and give a better understanding of the work volume, a few closely related codes were grouped for convenience, but for the most part, the figures in the table do refer to specific procedures. As Table 4 does relate to the twenty-five most common procedures for the year, specific procedures shown on the table may vary from year to year. Therefore, caution should be exercised when comparing this report to those of previous years.

In 1987/88, the total work load represented by the twenty-five most common procedures was 118,951 cases. The table then, gives a fairly good picture of the type of work being carried out on the day care program. However, it should be noted that as total day care volume has increased, so has the variety of procedures being performed on a day care basis. The proportion of the total work load represented by the twenty-five most common procedures has decreased over time. In 1977, the twenty-five most common procedures amounted to 81.3 percent of the total work load. In 1987/88, the twenty-five most common procedures represented 69.2 percent of the total day care surgical load. A further analysis of the procedures listed in Table 3 shows that the top five procedures as ranked by day care volume have remained unchanged over time. They are:

- cystoscopy and urethroscopy;
- therapeutic abortion;
- diagnostic dilation and curettage;
- removal and restoration of teeth; and
- nonoperative endoscopy of respiratory and upper gastro-intestinal tract.

These five procedures, however, which represented 49.4 percent of the total day care volume in 1977, accounted for only 31.3 percent of the total day care volume in 1987/88.

TABLE 4. THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES, BOTH SINGLE AND GROUPED, 1986/87 AND 1987/88

	ICD-9 CODE	PROCEDURE	1986/87		1987/88	
			CASES	RANK	CASES	RANK
1.	01.33 - 01.35, 67.85 - 67.87	cystoscopy and urethroscopy, with and without retrograde pyelogram	14,519	1	15,670	1
2.	86.41, 86.42, 86.49, 87.00, 87.10, 87.21, 87.29	therapeutic abortion	10,694	3	10,757	2
3.	79.00, 79.10, 79.21, 79.22, 79.23, 79.29, 79.30, 80.11, 80.12, 80.19, 81.09	diagnostic dilation and curettage	10,853	2	10,565	3
4.	35	removal of teeth	9,011	4	9,149	4
5.	01.02 - 01.09, 01.11 - 01.16	nonoperative endoscopy of respiratory and upper gastrointestinal tract	7,676	5	7,711	5
6.	56.81, 56.82, 57.91 - 57.95	biopsy of stomach and intestines	6,553	6	7,058	6
7.	78.21, 78.22, 78.31, 78.32, 78.39, 78.41, 78.42, 78.49, 78.53, 78.59	destruction or occlusion of fallopian tubes	5,329	7	5,071	7
8.	32.01, 32.09, 32.10	myringotomy; removal of tympanostomy tube	4,576	8	4,627	8
9.	01.22	other nonoperative colonoscopy	3,893	9	4,411	9
10.	98.11, 98.12	removal of lesion of skin and subcutaneous tissue	3,754	10	4,165	10
11.	97.11, 97.82	local excision or biopsy of lesion of breast	3,666	11	3,876	11
12.	92.32	excision of semilunar cartilage of knee	3,287	14	3,869	12
13.	75.64	vasectomy	3,423	13	3,753	13
14.	66.83	laparoscopy	3,577	12	3,619	14

TABLE 4. THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES, BOTH SINGLE AND GROUPED, 1986/87 AND 1987/88

	ICD-9 CODE	PROCEDURE	1986/87		1987/88	
			CASES	RANK	CASES	RANK
15.	33.21 - 33.23, 33.30, 33.40, 33.51, 33.52, 33.59, 33.61, 33.62, 33.71 - 33.77, 33.79, 33.91, 33.99, 34.00, 34.10, 34.21, 34.29, 34.31, 34.32, 34.41 - 34.44, 34.51 - 34.53	operations on nose and accessory sinuses	2,758	17	3,103	15
16.	27.51, 27.59	extracapsular extraction of lens	2,279	18	2,986	16
17.	70.10, 70.50	urethral meatotomy, dilation of urethra	2,803	15	2,970	17
18.	17.33	release of carpal tunnel	2,161	19	2,412	18
19.	28.53 - 28.55	excision or destruction of lesion of retina, by photocoagulation	2,797	16	2,387	19
20.	94.21, 95.21, 95.22, 95.29	excision of lesion of muscle, tendon and fascia	2,070	20	2,149	20
21.	16.91, 16.92	injection of agent into spinal canal	1,739	21	1,999	21
22.	11.88, 11.89, 90.60 - 90.69	removal of internal and external fixation device	1,713	22	1,721	22
23.	72.91	needle biopsy of prostate	1,384	25	1,697	23
24.	27.69	other extraction of lens NEC	1,334	26	1,651	24
25.	92.85	arthroscopy of knee	1,624	23	1,575	25
		TOTAL	113,473		118,951	
		Percentage of total day care surgical load	70.3		69.2	

In Table 5, the volume of day care surgery is compared with that currently being performed on an inpatient basis. For each of the twenty-five most common day care procedures, the table shows the corresponding volume of inpatient primary surgical procedures and the proportion of the total load which is done as a day care service. In 1987/88, the percentage done on a day care basis increased for twenty-three of the twenty-five procedures. Looking at all procedures shown in the table, the day care proportion amounted to 77.4 percent.

By analyzing the volume of day care surgery over time for those procedures shown in Table 4, it was possible to highlight those procedures among the twenty-five most common which are experiencing significant growth. These are shown in Table 6. A number of procedures were found which, though relatively small in total numbers of surgical day care procedures performed, appeared to have particular potential for overall growth, or for possible further transfer from inpatient to surgical day care. These procedures are identified on Table 7.

TABLE 5. THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES AND CORRESPONDING INPATIENT SURGICAL PROCEDURES (PRIMARY ONLY) PERFORMED IN ACUTE CARE HOSPITALS, 1987/88

ICD-9 CODE	DAY CARE	INPATIENT	TOTAL	% DAY CARE		
				1985/86	1986/87	1987/88
1. 01.33 - 01.35, 67.85 - 67.87	15,670	5,501	21,171	63.9	70.6	74.0
2. 86.41, 86.42, 86.49, 87.00, 87.10, 87.21, 87.29	10,757	784	11,541	88.0	92.6	93.2
3. 79.00, 79.10, 79.21, 79.22, 79.23, 79.29, 79.30, 80.11, 80.12, 80.19, 81.09	10,565	2,343	12,908	77.3	80.5	81.8
4. 35	9,149	1,205	10,354	85.3	88.0	88.4
5. 01.02 - 01.09, 01.11 - 01.16	7,711	3,891	11,602	66.2	66.7	66.5
6. 56.81, 56.82, 57.91 - 57.95	7,058	2,334	9,392	72.3	74.3	75.1
7. 78.21, 78.22, 78.31, 78.32, 78.39, 78.41, 78.42, 78.49, 78.53, 78.59	5,071	1,307	6,378	75.8	78.5	79.5
8. 32.01, 32.09, 32.10	4,627	298	4,925	91.7	92.0	93.9
9. 01.22	4,411	1,554	5,965	68.4	71.5	73.9
10. 98.11, 98.12	4,165	1,624	5,789	65.2	68.7	71.9
11. 97.11, 97.82	3,876	847	4,723	78.0	80.7	82.1
12. 92.32	3,869	1,026	4,895	63.7	71.4	79.0
13. 75.64	3,753	49	3,802	95.8	98.3	98.7
14. 66.83	3,619	1,378	4,997	68.0	71.6	72.4

TABLE 5. THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES AND CORRESPONDING INPATIENT SURGICAL PROCEDURES (PRIMARY ONLY) PERFORMED IN ACUTE CARE HOSPITALS, 1987/88

ICD-9 CODE	DAY CARE	INPATIENT	TOTAL	% DAY CARE		
				1985/86	1986/87	1987/88
15. 33.21 - 33.23, 33.30, 33.40, 33.51, 33.52, 33.59, 33.61, 33.62, 33.71 - 33.77, 33.79, 33.91, 33.99, 34.00, 34.10, 34.21, 34.29, 34.31, 34.32, 34.41 - 34.44, 34.51 - 34.53	3,103	3,755	6,858	39.6	42.6	45.2
16. 27.51, 27.59	2,986	2,923	5,909	30.2	39.6	50.5
17. 70.10, 70.50	2,970	576	3,546	76.2	81.2	83.8
18. 17.33	2,412	346	2,758	80.3	83.3	87.5
19. 28.53 - 28.55	2,387	18	2,405	90.4	99.5	99.3
20. 94.21, 95.21, 95.22, 95.29	2,149	341	2,490	83.4	85.8	86.3
21. 16.91, 16.92	1,999	406	2,405	78.0	77.3	83.1
22. 11.88, 11.89, 90.60 - 90.69	1,721	996	2,717	57.8	61.1	63.3
23. 72.91	1,697	539	2,236	68.5	74.6	75.9
24. 27.69	1,651	231	1,882	65.8	83.1	87.7
25. 92.85	1,575	369	1,944	74.7	77.3	81.0
TOTAL	118,951	34,641	153,592	69.8	75.3	77.4

TABLE 6. SIGNIFICANT GROWTH VOLUMES AMONG THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES, 1985/86 - 1987/88

ICD-9 CODE	PROCEDURE	CASES 1985/86	1986/87	1987/88	% INCREASE 85/86 - 87/88
27.51, 27.59	extracapsular extraction of lens	1,572	2,279	2,986	89.9
27.69	other extraction of lens NEC	879	1,334	1,651	87.8
92.32	excision of semilunar cartilage of knee	2,621	3,287	3,869	47.6
01.22	other nonoperative colonoscopy	3,233	3,893	4,411	36.4
56.81, 56.82, 57.91 - 57.95	biopsy of stomach and intestines	5,313	6,553	7,058	32.8
72.91, 72.92	biopsy of prostate	1,290	1,433	1,697	31.6
17.33	release of carpal tunnel	1,875	2,161	2,414	28.7

TABLE 7. ADDITIONAL DAY CARE SURGICAL PROCEDURES SHOWING SIGNIFICANT GROWTH, 1985/86 - 1987/88

ICD-9 CODE	PROCEDURE	CASES 1985/86	1986/87	1987/88	% INCREASE 85/86 - 87/88
07.29	forcible correction of musculoskeletal deformity	577	896	1,250	116.6
27.72	insertion of intraocular lens prosthesis with cataract extraction, one-stage	864	1,069	1,328	53.7
57.21, 57.29	local excision or destruction of lesion or tissue of large intestine	1,029	1,301	1,442	40.1
54.81	biopsy of esophagus	1,194	1,445	1,503	25.9
71.96	ultrasonic fragmentation of urinary stones	0	0	681	.

SECTION 4

DAY CARE SURGICAL VOLUMES FOR REGIONAL HOSPITAL DISTRICTS

SECTION 4. DAY CARE SURGICAL VOLUMES FOR REGIONAL HOSPITAL DISTRICTS

The number of day care surgical operations performed in acute care hospitals within each regional hospital district and the number of operations generated by the residents of each region are shown in Table 8. A map of British Columbia's regional hospital districts (Figure 5) has been included to complement the table. Comparative data is given for fiscal years 1985/86, 1986/87 and 1987/88.

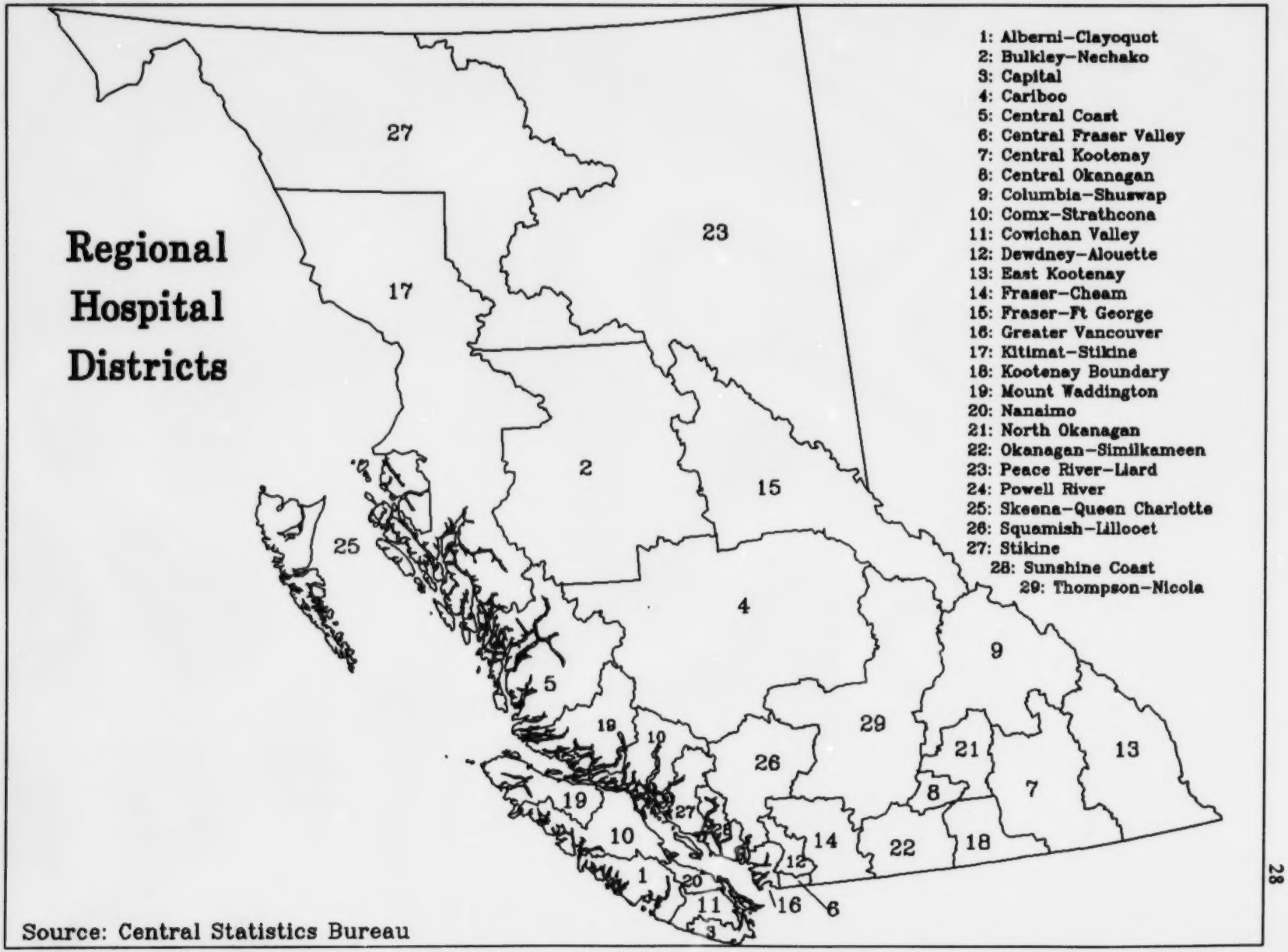
Column 1 (Res) for each fiscal year relates the volume of day care surgical procedures performed for residents of each regional hospital district. This volume is expressed as the incidence per 1,000 district population.

Column 2 (Hosp) relates the volume, for each regional hospital district, of day care surgical procedures actually performed in that district's hospitals. Again, this is expressed as the volume per 1,000 district population.

For example, in 1987/88, the incidence per 1,000 district population of day care surgical procedures performed for residents of Alberni-Clayoquot Regional Hospital District was 60.8. However, the volume per 1,000 district population of day care surgical procedures actually performed in Alberni-Clayoquot Region hospitals was 42.9.

Similarly, the incidence of day care surgical procedures performed for residents of the Capital Regional Hospital District was 74.8. The volume of day care surgical procedures actually performed in the Capital Region hospitals was 79.7 per 1,000 district population.

As would be expected, those regional hospital districts experiencing a net inflow of day care patients contain hospitals which have large total surgery loads, provide specialized services, or act as natural regional referral centres.



Source: Central Statistics Bureau

TABLE 8. DAY CARE SURGICAL PROCEDURES (PRIMARY) PER 1,000 POPULATION BY PATIENT'S PLACE OF RESIDENCE AND BY REGIONAL HOSPITAL DISTRICT HOSPITAL USED, 1985/86 - 1987/88

REGIONAL HOSPITAL DISTRICT No.	Name	POPULATION 1987/88	PROCEDURES PER 1,000 POPULATION 1985/86 Res	1985/86 Hosp	1986/87 Res	1986/87 Hosp	1987/88 Res	1987/88 Hosp
1	Alberni-Clayoquot	30,184	49.3	35.8	58.7	39.0	60.8	42.9
2	Bulkley-Nechako	36,816	35.3	19.7	38.4	22.0	38.5	21.7
3	Capital	270,505	51.2	53.9	72.7	77.6	74.8	79.7
4	Cariboo	60,358	49.5	36.2	51.7	39.1	53.7	40.9
5	Central Coast	3,204	24.0	4.1	29.0	3.8	34.3	4.1
6	Central Fraser Valley	142,195	54.2	38.6	57.8	41.7	59.3	44.2
7	Central Kootenay	48,119	40.1	22.8	46.3	26.7	50.1	28.3
8	Central Okanagan	92,038	53.6	59.1	56.6	61.3	60.7	63.5
9	Columbia-Shuswap	39,325	40.2	15.7	38.6	18.1	41.8	21.5
10	Comox-Strathcona	71,763	59.6	61.8	73.4	76.2	79.4	80.8
11	Cowichan Valley	52,923	61.9	52.8	74.7	63.0	80.1	67.7
12	Dewdney-Alouette	73,196	49.2	27.4	53.5	30.3	57.5	31.8
13	East Kootenay	50,401	30.9	31.9	36.7	37.4	40.1	41.1
14	Fraser-Cheam	58,992	54.8	44.5	57.4	45.8	61.0	48.0
15	Fraser-Fort George	87,928	44.2	49.6	44.3	49.4	42.8	47.8
16	Greater Vancouver	1,291,336	52.1	58.8	55.0	62.7	58.1	66.5
17	Kitimat-Stikine	39,842	30.0	25.1	36.7	30.9	34.2	27.5
18	Kootenay-Boundary	29,733	39.9	49.6	44.6	54.5	46.4	59.6
19	Mount Waddington	14,570	47.9	2.9	53.0	2.5	51.6	3.6
20	Nanaimo	83,096	54.2	57.2	62.8	62.5	69.6	68.9
21	North Okanagan	55,501	44.6	43.5	49.6	49.0	51.5	50.9
22	Okanagan-Similkameen	60,155	51.2	46.8	58.0	53.3	54.7	50.2
23	Peace River-Liard	55,953	23.3	20.2	27.6	24.8	27.6	22.9
24	Powell River	17,652	37.1	22.6	41.6	21.4	45.2	20.9
25	Skeena-Queen Charlotte	22,987	38.4	35.5	31.7	26.2	39.5	31.8
26	Squamish-Lillooet	20,180	39.3	5.3	44.1	5.4	45.6	5.4
27	Stikine	1,842	9.3	0.0	14.8	0.0	12.4	0.0
28	Sunshine Coast	16,920	44.5	22.4	49.5	24.9	51.7	24.0
29	Thompson-Nicola	97,986	67.9	78.8	65.4	72.2	68.6	75.3
TOTAL		2,925,700	50.1	50.3	55.6	55.9	58.4	58.7
Nonresidents			0.2		0.3		0.4	
TOTAL			50.3	50.3	55.9	55.9	58.7	58.7

APPENDICES

APPENDIX A. CANADIAN CLASSIFICATION OF DIAGNOSTIC, THERAPEUTIC AND SURGICAL PROCEDURES

OPERATION GROUP	CODE
Certain Diagnostic and Therapeutic Procedures	01 - 13
Operations on the Nervous System	14 - 18
Operations on the Endocrine System	19 - 20
Operations on the Eyes	21 - 29
Operations on the Ears	30 - 32
Operations on the Nose, Mouth, and Pharynx	33 - 41
Operations on the Respiratory System	42 - 46
Operations on the Cardiovascular System	47 - 51
Operations on the Hemic and Lymphatic Systems	52 - 53
Operations on the Digestive System and Abdominal Region	54 - 66
Operations on the Urinary Tract	67 - 71
Operations on the Male Genital Organs	72 - 76
Operations on the Female Genital Organs	77 - 83
Obstetrical Procedures	84 - 87
Operations on the Musculoskeletal System	88 - 96
Operations on the Breast	97
Operations on Skin and Subcutaneous Tissue	98
Procedures Not Elsewhere Classified	99

APPENDIX B. BRITISH COLUMBIA ACUTE CARE HOSPITALS

101 Vancouver General
102 St. Paul's
103 St. Vincent's
104 The Salvation Army Grace
105 Children's
106 Mount Saint Joseph
107 A. Maxwell Evans Clinic
109 Royal Columbian
110 Saint Mary's, New Westminster
111 Powell River General
112 Lions Gate
113 St. Mary's, Sechelt
115 Langley Memorial
116 Surrey Memorial
121 Richmond General
123 UBC Health Sciences Centre
125 Shaughnessy
128 Squamish General
130 Burnaby
131 Peace Arch District
134 Delta
136 Eagle Ridge
201 Royal Jubilee
202 Victoria General
203 Cowichan District
206 Lady Minto Gulf Islands
217 Saanich Peninsula
301 Vernon Jubilee
302 Kelowna General
303 Penticton Regional
305 Princeton General
306 Enderby and District Memorial
307 Armstrong and Spallumcheen
308 Summerland General
309 South Okanagan General
401 Royal Inland
402 Queen Victoria
403 Nicola Valley General
404 Shuswap Lake General
405 St. Bartholomew's
406 Cariboo Memorial
408 Ashcroft and District General
409 Golden and District General
417 Lillooet District
419 Dr. Helmcken Memorial
501 Nanaimo Regional General
502 St. Joseph's General
504 Cumberland Health Care Facility*
505 Chemainus Diagnostic & Treatment Centre*
506 Ladysmith and District General
507 St. George's
508 Campbell River & District General
510 Port Hardy
511 Port McNeill and District
601 Chilliwack General
602 Mission Memorial
603 Matsqui-Sumas-Abbotsford General

* Diagnostic and Treatment Centre

APPENDIX B. BRITISH COLUMBIA ACUTE CARE HOSPITALS

604 Maple Ridge
606 Fraser Canyon
651 Kootenay Lake District
652 Slocan Community
653 Victorian
654 Creston Valley
655 Arrow Lakes
701 Fort St. John General
702 St. John
703 Prince George Regional
704 Dawson Creek and District
705 G. R. Baker Memorial
707 Burns Lake and District
708 100 Mile District General
713 McBride and District
714 Fort Nelson General
715 MacKenzie and District
716 Chetwynd General
717 Stuart Lake
752 Kimberley and District
753 Fernie District
754 Sparwood General
755 Windermere District
756 Cranbrook and District
801 Trail Regional
802 The Mater Misericordiae
803 Boundary
804 Castlegar and District
851 West Coast General
854 Tofino General
859 Port Alice
861 Tahsis
901 Wrinch Memorial
902 Prince Rupert Regional
903 Bulkley Valley District
904 R. W. Large Memorial
906 Bella Coola General
907 Queen Charlotte Islands General
909 Houston Health and Human Resource Centre*
910 Stewart General
912 Mills Memorial
916 Cassiar
917 Kitimat General

* Diagnostic and Treatment Centre